

BASF Aktiengesellschaft

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Process for preparing reactive polyether polyols having an ethylene oxide end block

5 Abstract

Process for preparing polyether polyols having an end block of ethylene oxide by addition of alkylene oxides onto H-functional starter substances, in which

10 A) a polyether polyol precursor is prepared by means of double metal cyanide (DMC) catalysis in a semicontinuous mode of operation in which previously prepared polyether polyol together with the DMC catalyst are placed in a reactor and H-functional starter substance and propylene oxide are added continuously,

15 B) the polyether polyol precursor from stage A) is reacted with propylene oxide or an ethylene oxide/propylene oxide mixture in the presence of the DMC catalyst in a continuously operating reactor to give a polyether polyol intermediate,

20 C) the intermediate from stage B) is mixed with an alkali metal hydroxide as catalyst and

25 D) reacted with ethylene oxide in a continuously operating reactor to give the final product,

E) the catalyst is separated off from the final product obtained in stage D).

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